Table R-12: 1999 Key Source Tier 1 Analysis - Level Assessment

	Direct		Current Year	T 1	G 1.4
IDCC Source Cotogories	Greenhouse	Estimate	Estimate		Cumulative
IPCC Source Categories	Gas	(Tg CO ₂ Eq.)	(Tg CO ₂ Eq.)		Total
CO ₂ Emissions from Stationary Combustion - Coal	CO ₂	1,697.29	1,961.09	0.29	0.29
Mobile Combustion: Road & Other	CO ₂	1,244.98	1,487.68	0.22	0.50
CO ₂ Emissions from Stationary Combustion - Gas	CO ₂	976.63	1,148.19	0.17	0.67
CO ₂ Emissions from Stationary Combustion - Oil	CO ₂	669.99	666.10	0.10	
Direct N ₂ O Emissions from Agricultural Soils	N_2O	193.71	216.84	0.03	0.80
CH ₄ Emissions from Solid Waste Disposal Sites	CH ₄	212.07	203.73	0.03	0.83
Mobile Combustion: Aviation	CO ₂	176.88	186.77	0.03	0.86
Fugitive Emissions from Natural Gas Operations	CH ₄	122.01	120.28	0.02	0.87
CH ₄ Emissions from Enteric Fermentation in Domesti Livestock	c CH ₄	117.85	116.58	0.02	0.89
Indirect N ₂ O Emissions from Nitrogen Used in Agriculture	N ₂ O	73.83	80.16	0.01	0.90
CO ₂ Emissions from Iron and Steel Production	CO_2	85.41	64.38	0.01	0.91
Fugitive Emissions from Coal Mining and Handling	CH ₄	87.12	63.69	0.01	0.92
Mobile Combustion: Road & Other	N_2O	48.56	56.50	0.01	0.93
Emissions from Substitutes for Ozone Depleting	Several	0.94	50.86	0.01	0.94
Substances					
CO ₂ Emissions from Cement Production	CO_2	33.28	39.99	0.01	0.94
CH ₄ Emissions from Manure Management	CH ₄	31.28	38.89	0.01	0.95
Mobile Combustion: Marine	CO_2	48.60	38.58	0.01	0.95
HFC-23 Emissions from HCFC-22 Manufacture	HFCs	34.98	30.41	< 0.01	0.96
CH ₄ Emissions from Wastewater Handling	CH_4	24.08	28.16	< 0.01	0.96
CO ₂ Emissions from Waste Incineration	CO_2	14.07	23.90	< 0.01	0.97
Fugitive Emissions from Oil Operations	CH_4	27.49	21.60	< 0.01	0.97
CO ₂ Emissions from Ammonia Production and Urea Application	CO_2	19.31	20.61	< 0.01	0.97
N ₂ O Emissions from Nitric Acid Production	N_2O	17.85	20.12	< 0.01	0.98
N ₂ O Emissions from Manure Management	N_2O	16.18	17.35	< 0.01	0.98
SF ₆ Emissions from Electrical Equipment	SF_6	32.10	16.40	< 0.01	0.98
N ₂ O Emissions from Wastewater Handling	N_2O	12.71	15.11	< 0.01	0.98
Non-CO ₂ Emissions from Stationary Combustion	N_2O	12.52	13.72	< 0.01	0.99
CO ₂ Emissions from Lime Production	CO_2	11.24	13.47	< 0.01	0.99
PFC Emissions from Aluminum Production	PFCs	18.11	8.94	< 0.01	0.99
CH ₄ Emissions from Rice Production	CH_4	7.12	8.29	< 0.01	0.99
PFC, HFC, and SF ₆ Emissions from Semiconductor	SF ₆	2.86	7.73	< 0.01	0.99
Manufacture CO ₂ Emissions from Limestone and Dolomite Use	CO_2	5.47	7.67	< 0.01	0.99
Non-CO ₂ Emissions from Stationary Combustion	CO ₂ CH ₄	8.14	7.38	< 0.01	0.99
CO ₂ Emissions from Natural Gas Flaring	CO_2	5.51	6.68	< 0.01	0.99
SF ₆ Emissions from Magnesium Production	SF ₆	5.37	6.01	< 0.01	0.99
CO ₂ Emissions from Aluminum Production	CO_2	6.31	5.90	< 0.01	1.00
N ₂ O Emissions from Adipic Acid Production	N_2O	15.20	5.48	< 0.01	1.00

TOTAL		6,139.64	6,849.54	1.00	
CH ₄ Emissions from Silicon Carbide Production	CH_4	0.03	0.02	< 0.01	1.00
Mobile Combustion: Marine	CH_4	0.07	0.08	< 0.01	1.00
Mobile Combustion: Aviation	$\mathrm{CH_4}$	0.16	0.15	< 0.01	1.00
N ₂ O Emissions from Waste Incineration	N_2O	0.29	0.23	< 0.01	1.00
Geothermal Energy					
CO ₂ Emissions from Stationary Combustion -	CO_2	0.40	0.38	< 0.01	1.00
Mobile Combustion: Marine	N_2O	0.36	0.44	< 0.01	1.00
N ₂ O Emissions from Agricultural Residue Burning	N_2O	0.37	0.44	< 0.01	1.00
CH ₄ Emissions from Agricultural Residue Burning	CH_4	0.68	0.76	< 0.01	1.00
CO ₂ Emissions from CO ₂ Consumption	CO_2	0.90	1.21	< 0.01	1.00
CH ₄ Emissions from Petrochemical Production	CH_4	1.17	1.67	< 0.01	1.00
Mobile Combustion: Aviation	N_2O	1.71	1.82	< 0.01	1.00
CO ₂ Emissions from Titanium Dioxide Production	CO_2	1.31	1.85	< 0.01	1.00
CO ₂ Emissions from Ferroalloys	CO_2	1.98	2.00	< 0.01	1.00
Consumption					
CO ₂ Emissions from Soda Ash Manufacture and	CO_2	4.14	4.22	< 0.01	1.00
Mobile Combustion: Road & Other	CH_4	4.73	4.26	< 0.01	1.00
N ₂ O Emissions from N ₂ O Product Usage	N_2O	4.30	4.79	< 0.01	1.00

Note: Sinks (e.g., LUCF, Landfill Carbon Storage) are not included in this analysis.